

## **ABSTRACT OF THE DISCLOSURE**

An apparatus for processing a non-interlaced image includes a wavelet transform part and a determination part. The wavelet transform part performs two-dimensional discrete wavelet transform of a level higher than or equal to level one on the data of the non-interlaced image. The determination part determines the movement speed of an object within the non-interlaced image based on at least the values of the wavelet coefficients of a 1LH sub-band of the wavelet coefficients obtained by the wavelet transform unit.